

CLAIMS

What is claimed is:

1. A rotor for small motors provided on its shaft with a plurality of rotor magnetic poles of a salient-pole configuration and a commutator unit, each of the rotor magnetic poles being composed of a winding around a laminated core and each of both ends of each wound wire being connected to a commutator leg part coupled with a tip of a corresponding commutator segment of the commutator unit, wherein:
 - each of said commutator leg part is formed separately from the corresponding commutator segment, and the commutator leg part and the commutator segment are fixed by welding.
2. The rotor for small motors, as set forth in claim 1, wherein said commutator leg parts are punched and cut out of a reel-wound flat parent metal sheet and fixed to the commutator segment tips.
3. The rotor for small motors, as set forth in claim 2, wherein a disk-shaped varistor having a hole at its center is mounted over the base portion of each of said commutator leg parts on the reverse side to the winding in an axial direction of a shaft, and each electrode of the varistor is soldered onto the corresponding base portion.
4. The rotor for small motors, as set forth in claim 1, wherein a disk-shaped varistor having a hole at its center is mounted over the base portions of said commutator leg parts on the reverse side to the winding in an axial direction of a shaft, and each electrode of the varistor is soldered onto the corresponding base portion.

5. A manufacturing method for a rotor for small motors provided on its shaft with a plurality of rotor magnetic poles of a salient-pole configuration and a commutator unit, each of the rotor magnetic poles being composed of a winding around a laminated core and each of both ends of each wound wire being connected to a commutator leg part coupled with a tip of a corresponding commutator segment of the commutator unit, said method comprising steps of:

punching and cutting out of a reel-wound flat parent metal sheet each of said commutator leg parts having a base portion coupled with a tip of a commutator segment and a tip portion narrowed stepwise to let a wound wire end be connected, and at the same time, fixing the commutator leg part to the commutator segment tip so as to extend outward in a direction substantially normal to a radial direction from the commutator segment tip.

6. The manufacturing method for a rotor for small motors, as set forth in claim 5, further including steps of mounting a disk-shaped varistor having a hole at its center over the base portions of said commutator leg parts on the reverse side to the winding in an axial direction of a shaft, and soldering each electrode of the varistor onto the corresponding base portion.

10075934-DE4402